

We Want To Know

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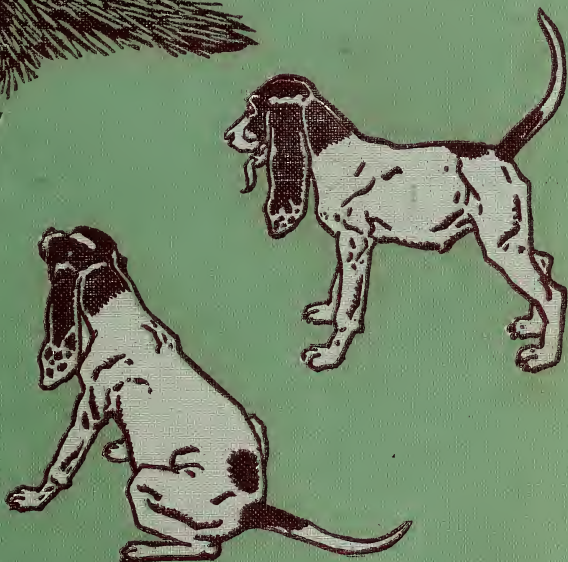
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NEW · PATHWAYS · IN · SCIENCE

We Want to Know

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WITH ILLUSTRATIONS
BY ROBERT LAMB DIN

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New Pathways in Science

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We Want to Know

CRAIG • BURKE • BABCOCK

•

We Find Out

CRAIG • BURKE

•

Changes All Around Us

CRAIG • BALDWIN

•

Our Earth and Sky

CRAIG • BALDWIN

•

The Earth and Life Upon It

CRAIG • HURLEY

•

From Sun to Earth

CRAIG • CONDRY • HILL

•

The Earth Then and Now

CRAIG • JOHNSON • LEWIS

The Athenæum Press

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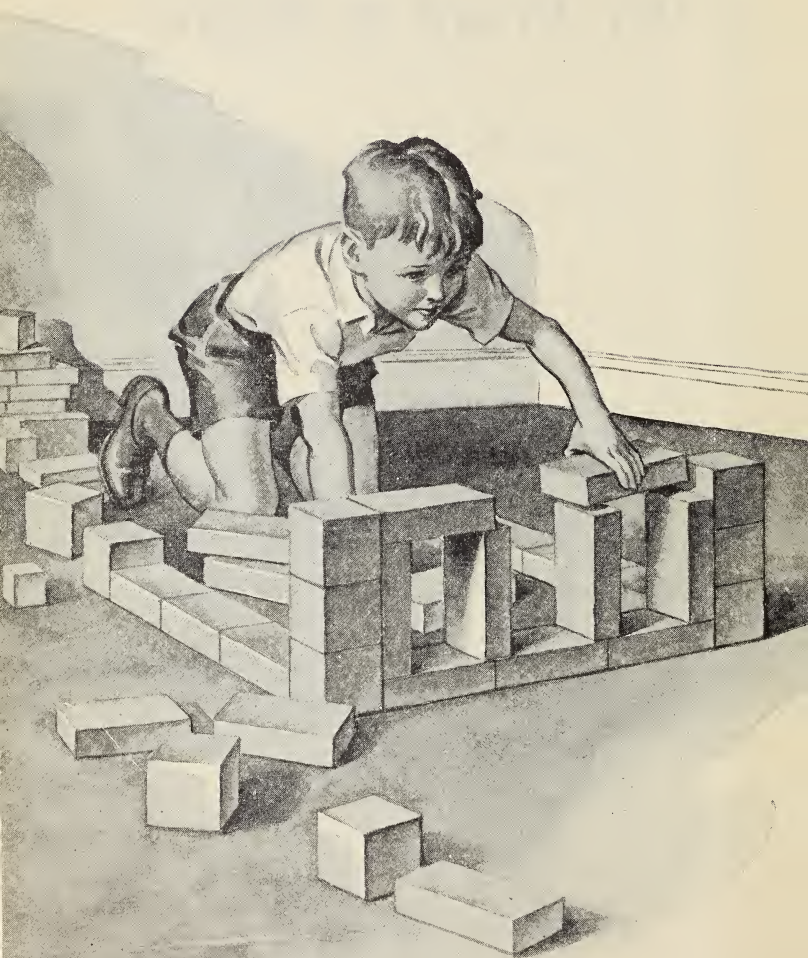
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We Want to Know

I Things Fall

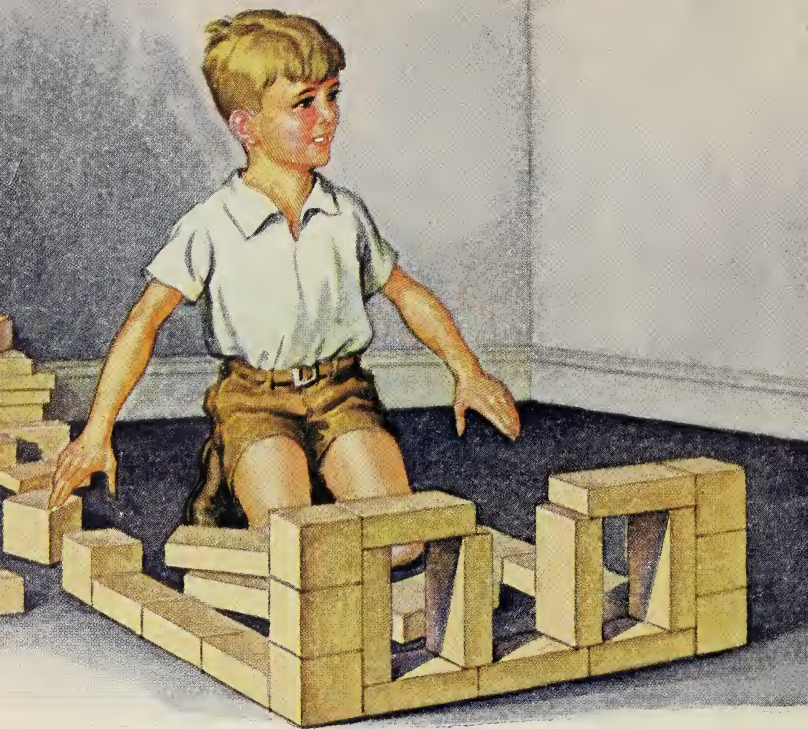




Houses

"Joe! Joe!" said Mary.

"What are you making?"



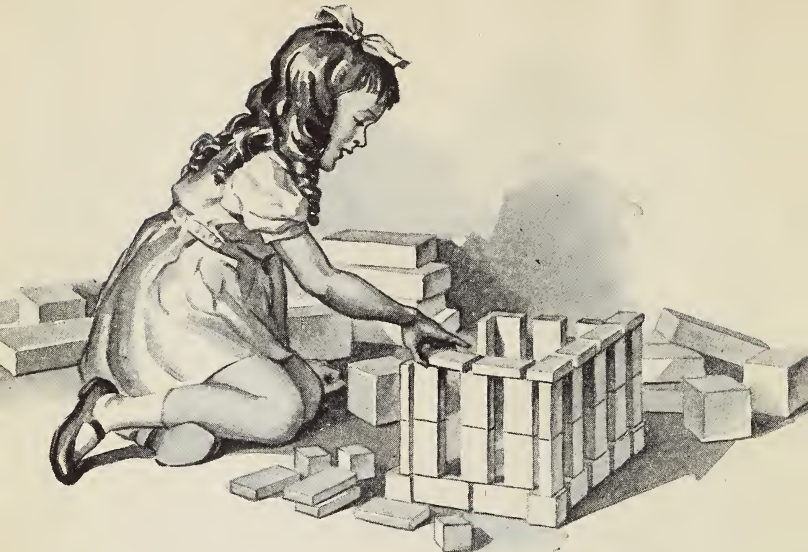
"I am making a house,"
said Joe.

"I am making a house
of blocks for my dog."



"I want a house for my doll,"
said Mary.

"May I make a house, too?"



"Yes," said Joe.

"You may have some blocks
Here are big blocks
and little blocks.

You may make a house, too."

"I will make a house
for my doll," said Mary.

"My dog is big," said Joe.

"I am making a big house.

I put blocks and blocks
and blocks on my house."

"Look at my house,"
said Mary.

"Do you like it?"

"Yes, I like your house,"
said Joe.

"But it is too little
for your doll.

Your doll is big.

You will have to make
a big house."



Then Mary put blocks
and blocks on her house.
Bang! Bang! Bang!
Down went Mary's house.
Bang! Bang! Bang!

Mary and Joe laughed
and laughed.

"My house was too big,"
said Mary.

"It went down."

13



"Look at my house," said Joe.

"It is a big, big house.

My dog can go into it.

My house did not fall down."

"Your house did not fall.

What made my house fall?"
asked Mary.



"I put big blocks
at the bottom," said Joe.

"You put little blocks
at the bottom.

That made your house fall."

15

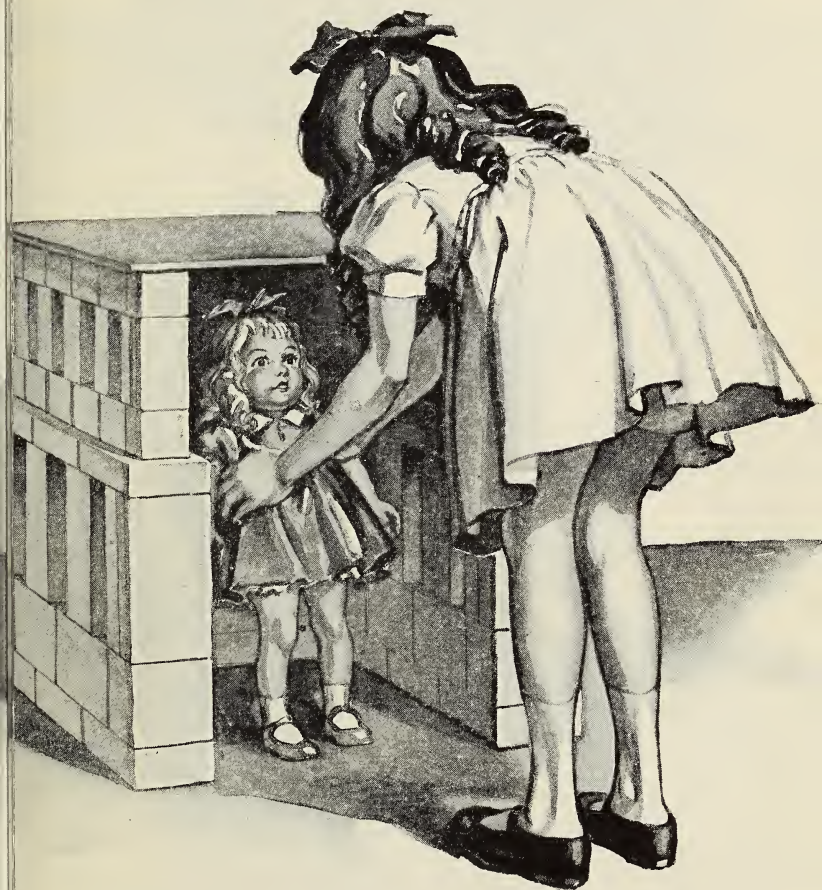


Mary made her house again.
She put big blocks
at the bottom.

She put on blocks and blocks
and blocks.

She put her doll into the house.
Her house did not fall down.





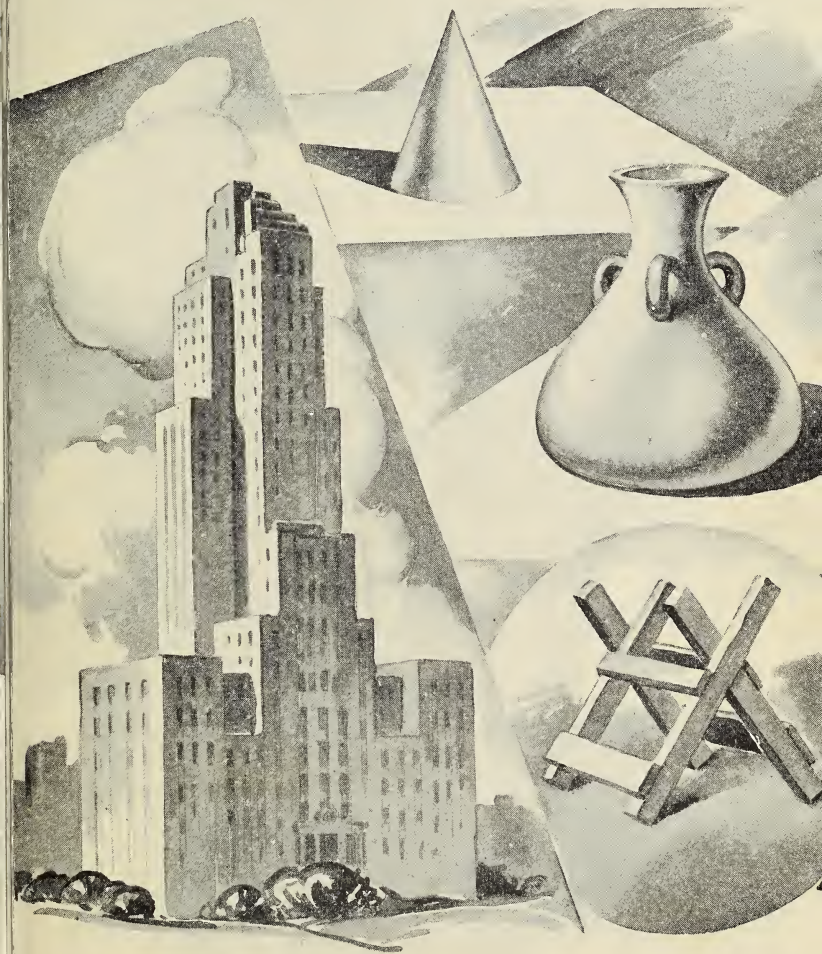


Some things fall over.

They are little at the bottom.

Some things do not fall over.
They are big at the bottom.

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II
Things Rub



Making Things Warm

Joe went for a walk.

Father went for a walk, too.



They walked and walked.
Then Father said, "It is cold.
My hands are cold.
Are you cold, Joe?"

"Yes," said Joe.
"My hands are cold."



"You can warm your hands,"
said Father.

"Rub your hands like this."

Father rubbed his hands.

Joe rubbed his hands, too.

He rubbed and rubbed.

Then Joe's hands were warm.

"My hands are warm now,"
said Father.

"My hands are warm, too,"
said Joe.

"Rubbing makes things warm,"
said Father.





What makes Joe's hands warm?



Other Things Rub

"I have a saw," said Joe.

"I can saw wood.

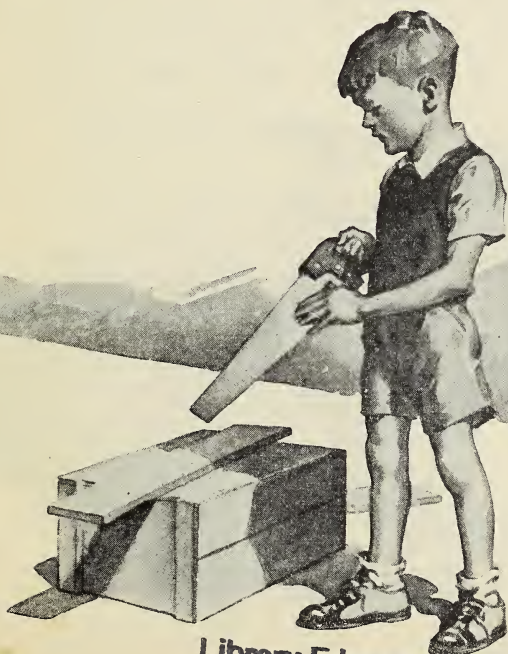
The saw moves up and down,
up and down."

Soon Joe said,
"This saw is warm!"

The saw rubbed and rubbed
the wood.

This made the saw warm.
Rubbing makes things warm.

27



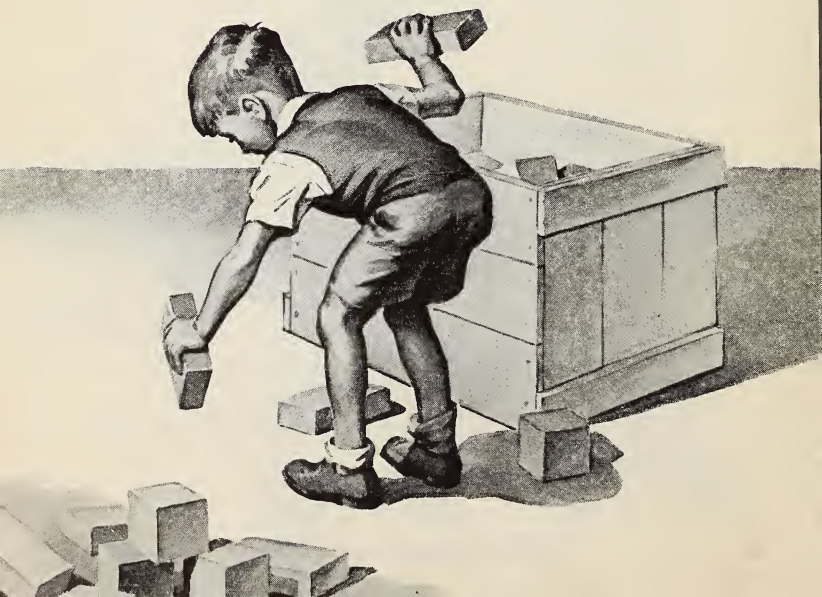
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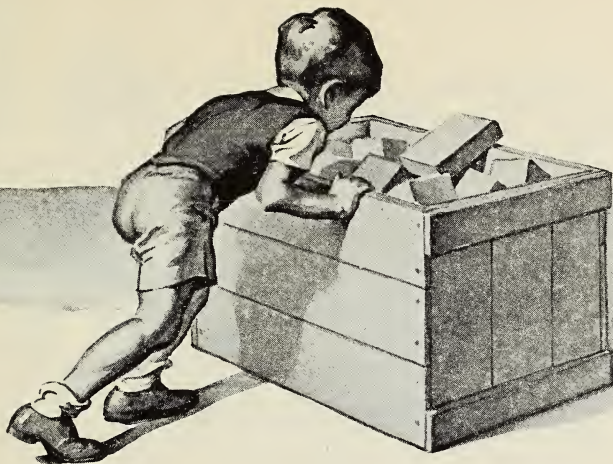
Making Things Move

Father had a big box.
"This is for you, Joe,"
he said.

"Thank you," said Joe.
"I will keep my blocks in it."

28





Joe put his blocks
into the box.

Then he said,
"I do not want the box here.
The box has many,
many blocks in it.
I can not move it."

"I will help you," said Father.

Joe and Father pushed
and pushed.

"This box is hard to move,"
said Joe.

"Yes, it is," said Father.

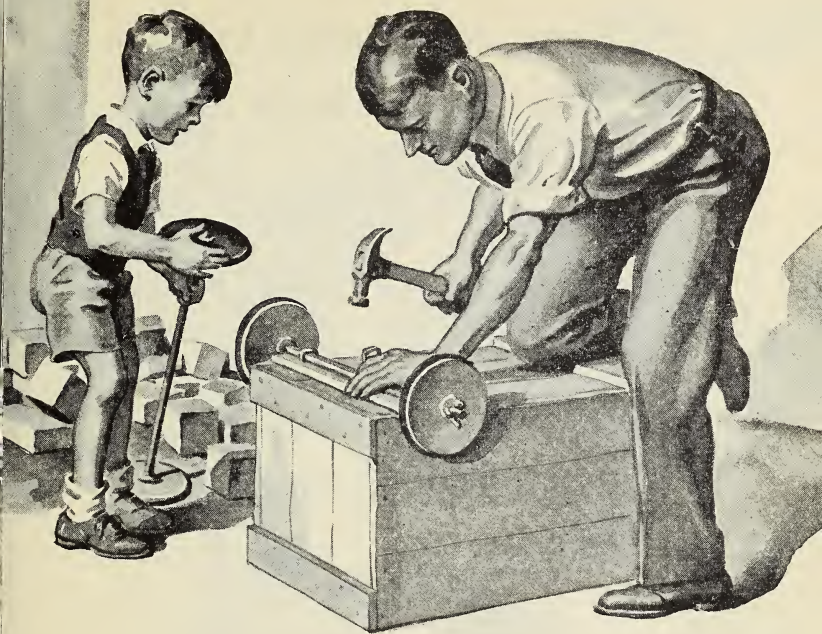
Father and Joe pushed
and pushed the box again.

Many blocks were in it.

"This box is hard to move,"
said Father.

"It rubs on the floor.

Rubbing makes it hard
to move."



Father put four wheels
on the box.

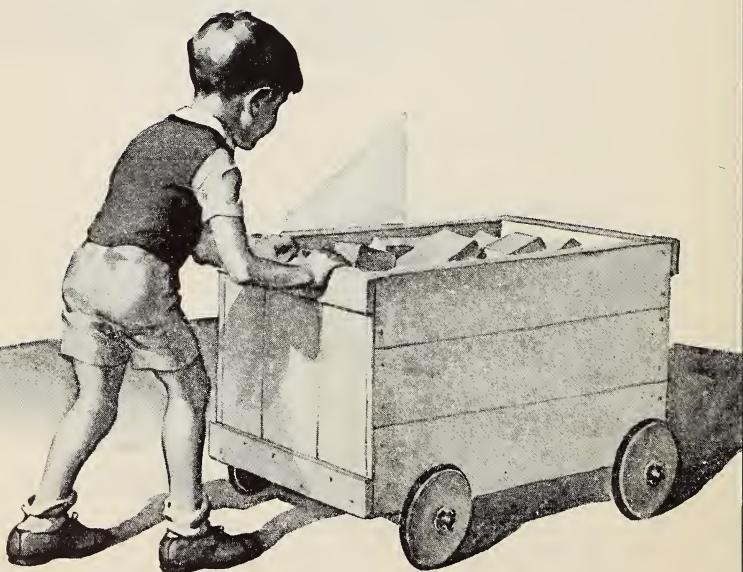
"Now you can move the box,"
said Father.

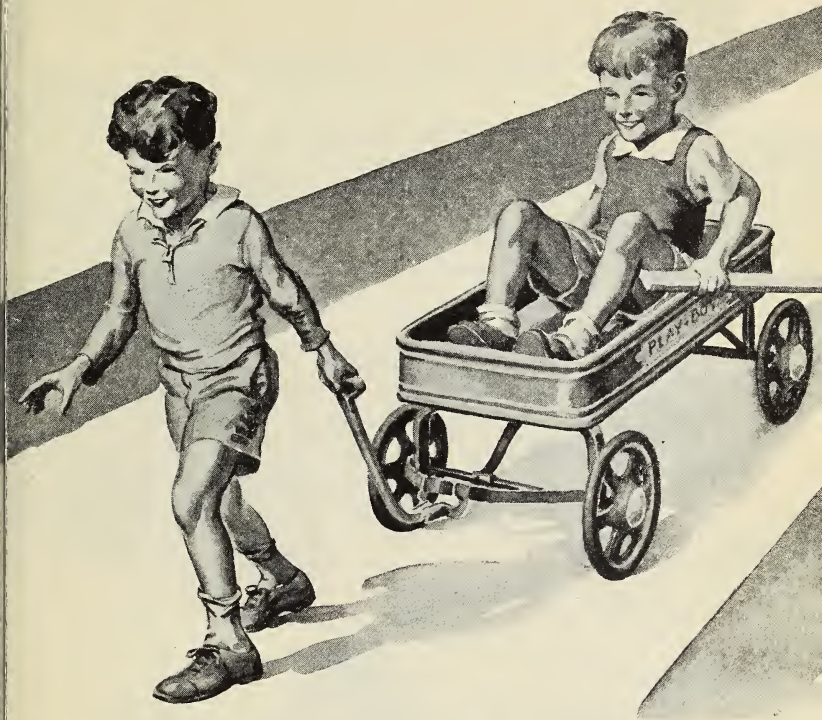
"I do not have to help you."

Then Joe pushed the box.
"It is easy to move now,"
said Joe.

"The wheels make it easy
to move," said Father.

"The wheels do not rub
on the floor so hard."





Making Things Stop

Peter had a wagon.

The wagon was easy to move.

It had wheels.



Joe had a ride in the wagon.
Joe had a stick.
He put the stick in the wheel.
Then Peter had to pull hard.
“This wagon is hard to move,”
said Peter.

Joe laughed and said,
"I made it hard to move.
I put this stick in the wheel."

Then Peter laughed, too.
"Do not do it again," he said.
"That makes the wagon
too hard to pull."



"The stick is out
of the wheel now," said Joe.

"Now the wagon is easy
to move," said Peter.

He ran and ran.

36





Joe gave Peter a ride.

"This wagon is easy to move,"
said Joe.

Peter put the stick
in the wheel.

Then Joe had to pull hard.

"This wagon is hard to move now," said Joe.

"Did you put the stick in the wheel?"

Peter laughed.

"Yes," he said.

"I put the stick in the wheel."

"The stick is like a brake," said Joe.

"It makes the wheel stop.

The wheel rubs on the road.

Then it is hard to move the wagon."



This is Joe's wagon.

Joe's wagon has a brake.

The brake makes the wheels stop.

The wheels rub on the road.

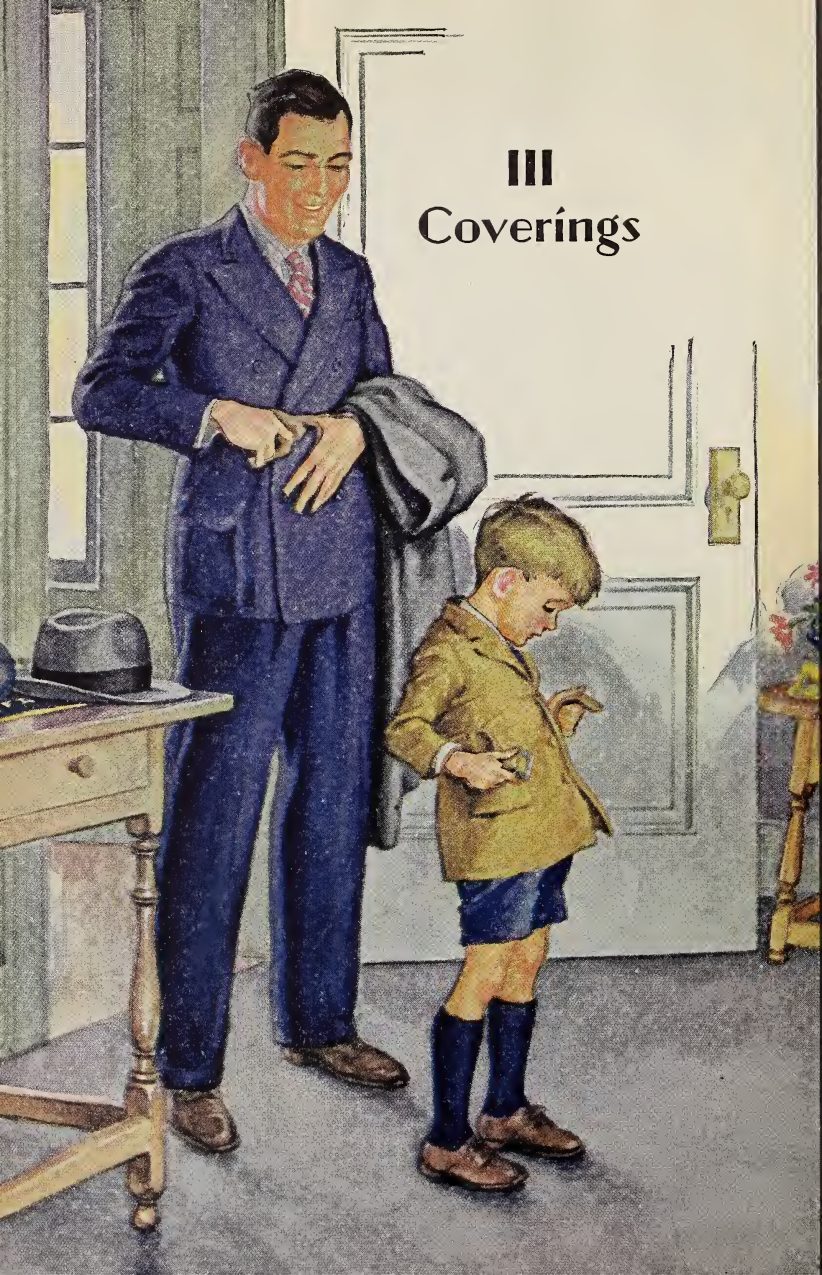
That makes the wagon stop.

Automobiles have brakes, too.
The brakes rub on the wheels.
Then the wheels stop.
The wheels rub on the road.
Then the automobiles stop.





III Coverings



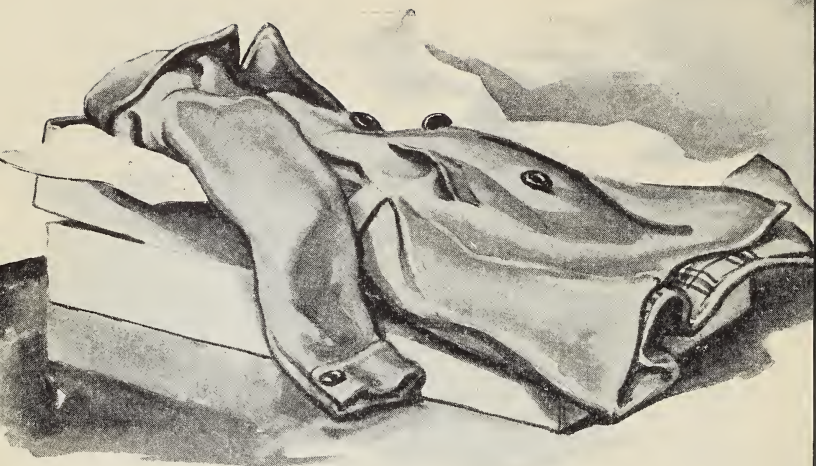
Wool Coats

"Joe's coat is too little,"
said Mother.

"I will look for a new one,"
said Father.

43





Father came home.

He had a big box.

“Here is a new coat
for you, Joe,” said Father.

“This coat will keep you warm.

It is made of wool.

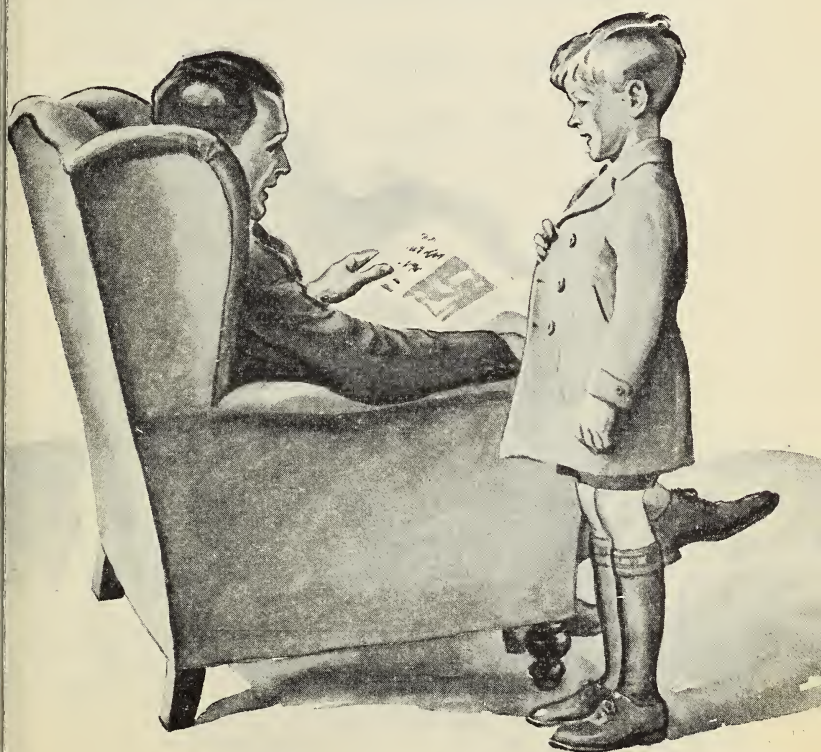
It is made of wool
from the coat of a sheep.”

"Thank you for the new coat,
Father," said Joe.

"I can not thank the sheep.

But I want to see a sheep.

I want to see his wool coat."



The next day Father said,
"Come, Joe.

Do you want to go for a ride?
We will look for some sheep."

Mother went, too.

They saw sheep.

They saw many, many sheep.

Joe put his hands
on the wool coats.



"Wool is warm," said Joe.

"Do other animals have coats?"

"Yes," said Father.

"Many animals have coats.

But they do not all have
wool coats.

Many animals do not
have wool coats."

"I want to see the coats
of other animals," said Joe.

"Can we find other animals?"

"Yes," said Father.

"We will look for some."

Fur Coats

"Here is a dog," said Joe.

"He has a warm coat.

It is not a wool coat.

It is fur.

Fur keeps dogs warm."

48





Woodchuck



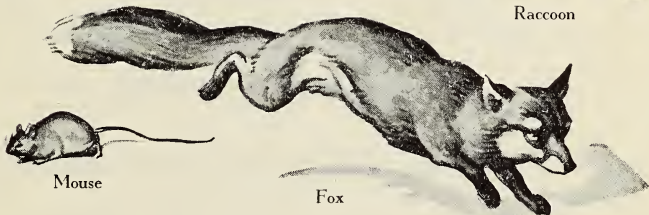
Skunk



Bear



Raccoon



Fox



Mouse

Many animals have coverings
of fur.

Fur keeps animals warm.



Feather Coats

“We will look at the coverings of other animals,” said Father.

“Here are some ducks,” said Mother.



"Look, Father!" said Joe.

"Ducks have feathers.

Feathers keep ducks warm."

"Hens have feathers, too,"
said Father.

"Hens and ducks are birds."

All birds have feathers.
Feathers keep birds warm.

52



Owl



English sparrow

Red-headed
woodpecker



Turkey



Starling



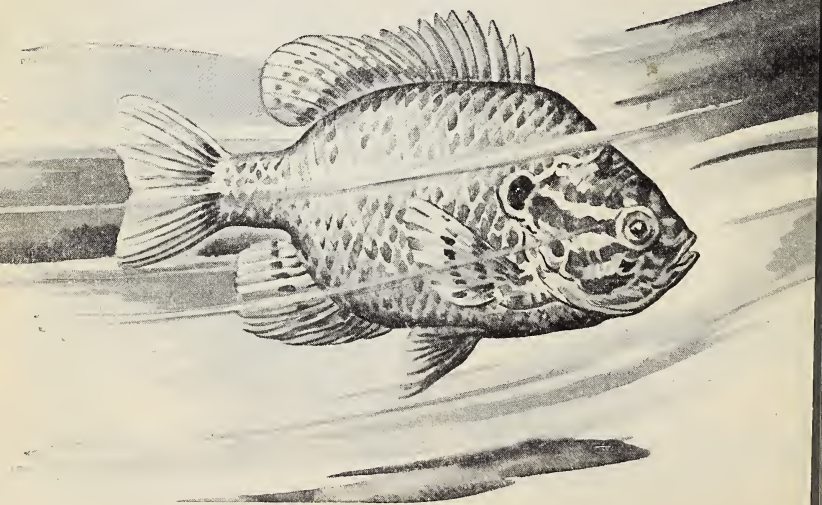
Scales

"Look in the water,"
said Father.

"You may see some fish."

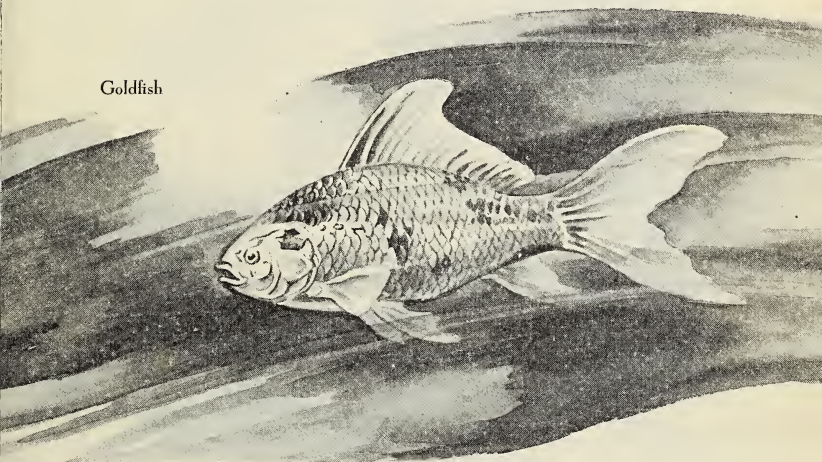
"Fish do not have feathers.
They do not have wool.
They do not have fur.
What covering do they have?"
asked Joe.

"Fish have scales," said Mother.
"Scales keep fish
from getting hurt."





Rattlesnake



Goldfish

Many animals have scales.
Scales keep animals
from getting hurt.

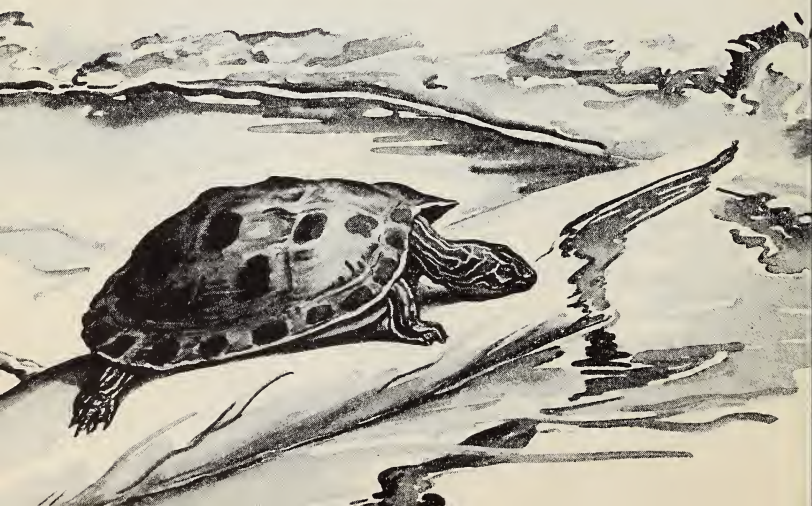
Shells

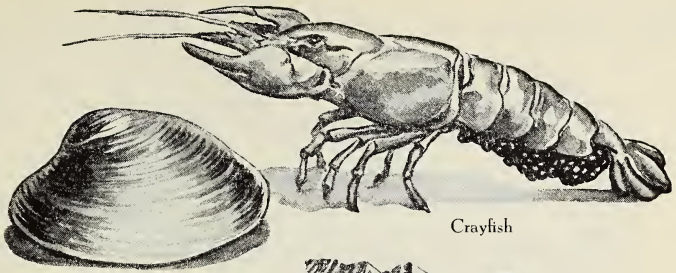
"Here is a turtle,"
said Father.

"He is going into the water.
He has a shell.

The shell keeps a turtle
from getting hurt."

"A turtle has a good covering,"
said Joe.



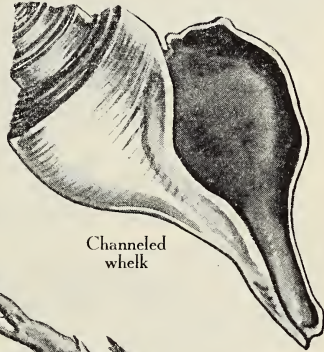


Crayfish

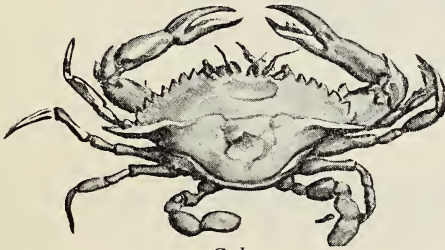
Clam



Land snail



Channeled
whelk



Crab



Japanese snail

Many animals have shells.
Shells keep animals
from getting hurt.

Some animals have wool.



Some animals have fur.



Some animals have feathers.



Some animals have scales.



Some animals have shells.



All animals have coverings.



Skin Helps Animals

This animal has no fur.

It has no feathers.

All it has is skin.

How does skin help it?

This animal has no warm coat.
How does its skin help it?

60





IV

Food for Birds





The Feeding Tray

"Look, look!" said Joe.

"See the birds on the snow."

"They want food,"
said Miss White.

"I have food for the birds,"
said Joe.

"I have some bread."

Joe gave the bread to the birds.
They ate and ate.

The next day Joe gave bread
to the birds again.

The birds ate and ate.

"You can make a feeding tray
for the birds,"
said Miss White.

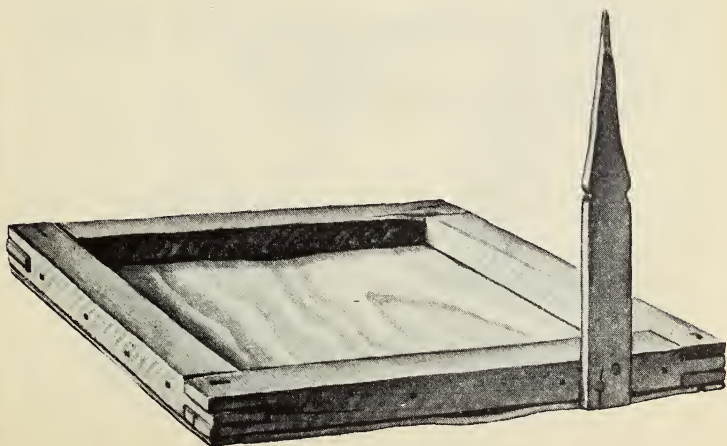
"Is a feeding tray hard to make?" asked Mary.

"No," said Miss White.

"I will help you."

The boys and girls made the feeding tray.

"That was easy to make," they said.





"Now let us put the tray out for the birds," said Miss White.

The boys and girls put bread on the feeding tray.

"Do all birds want bread?" asked Mary.

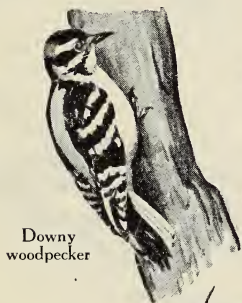
"No," said Miss White.

What Birds Eat

"Not all birds eat
the same food," said Miss White.

"Some birds eat suet."

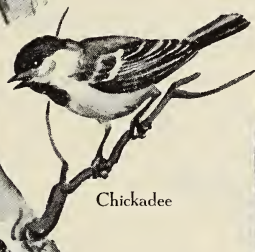
67



Downy
woodpecker



Blue jay



Chickadee



Flicker



White-breasted nuthatch

"Some birds eat nuts,"
said Jean.



Blue jay



Junco



Cardinal grosbeak



White-breasted nuthatch

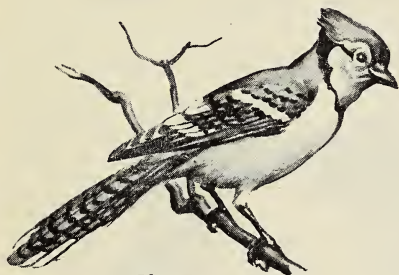


Chickadee



Tufted titmouse

"Some birds eat cracked corn,"
said Peter.



Blue jay



Junco



Cardinal grosbeak



White-breasted nuthatch



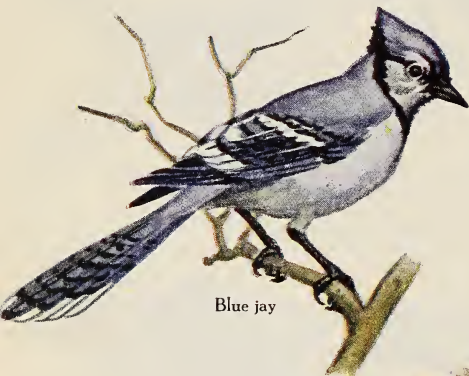
English sparrow



Crow

"Some birds eat sunflower seeds,
said Miss White.

"Birds eat many, many seeds."



Blue jay



Chickadee



Purple finch



White-breasted
nuthatch

"I can bring some suet,"
said Joe.

"I can bring sunflower seeds,"
said Mary.

"Mother will let me have
some nuts," said Peter.

"We have cracked corn
for the hens," said Jean.

"I will bring some for
the feeding tray."

"We shall have food
for many birds," said Miss White.

Feeding the Birds

The next day Joe had suet
for the birds.

Mary had sunflower seeds.

Peter had cracked nuts.

Jean had cracked corn.

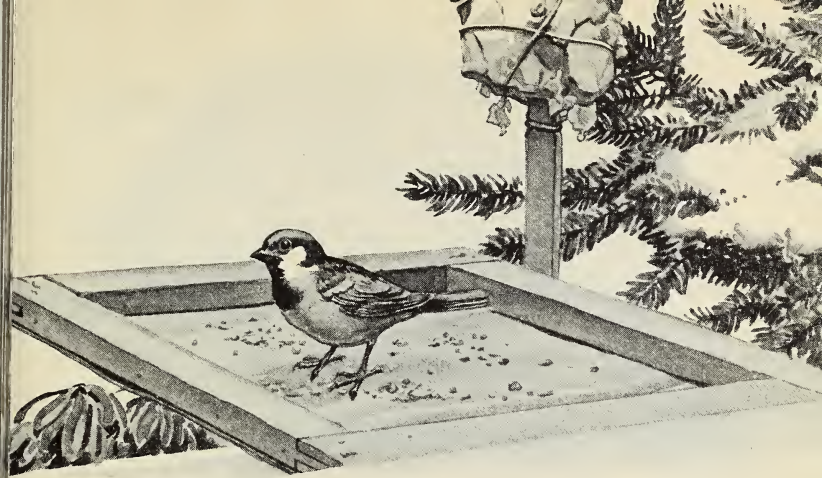
They put the food
on the feeding tray.

That day no birds came.

"The birds do not like
the feeding tray," said Mary.

"The birds will have
to find it," said Miss White.

"They will find it soon."



The next day Mary said,
“Look, look!

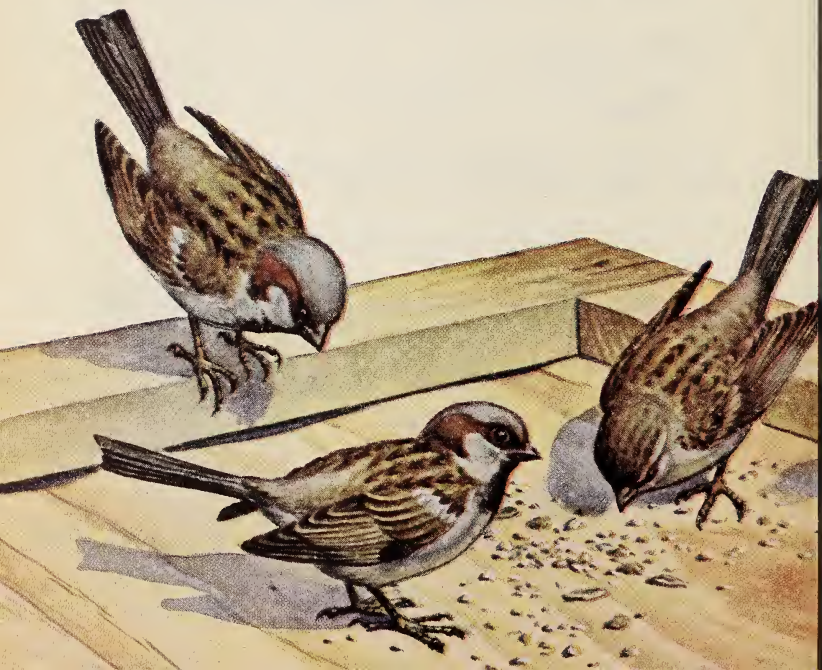
There is a bird
on the feeding tray!”

The bird walked up and down
the feeding tray.

He ate and ate.

No other birds came.

The next day four birds came.
They ate and ate.
One bird ate suet.
The other birds ate
the cracked corn.
They ate all the corn.





The next morning the birds
had no corn.

Jean put some out for them.

That day many birds came.

76



One bird ate nuts.

Four birds ate corn.

Some of them ate suet.

Some ate sunflower seeds.

They did not eat the same food.

The birds came every day.

Every day the children
put out food for them.

Joe made a feeding tray
at home.

Many birds came to it.

Mary made one, too.

Then all the children made
feeding trays.

V Water



A House for the Summer

It was summer.

It was warm at Joe's house.

"It is too warm here,"
said Father.

"Yes," said Mother.

"We shall have to find a house
for the summer."



"Let us go in the automobile,"
said Father.

"Let us look for a house
by the water.

I want to fish this summer."

"I want a house
in the woods," said Mother.

"I want to swim
this summer," said Edith.





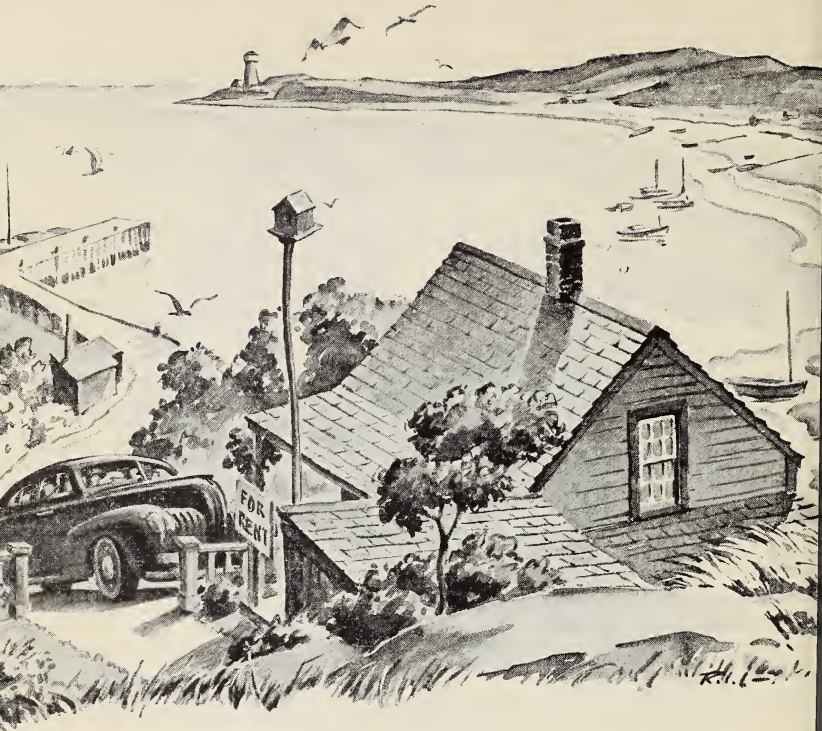
"I want to sail my boat,"
said Joe.

Then Mother said,
"Father wants to fish.

Edith wants to swim.

Joe wants to sail his boat.

I want to find a house
in the woods."



The Ocean

They all went
in the automobile.

They had a long ride.
By and by they came
to a house by the ocean.

"We will stop here,"
said Father.

"Let us look at this house.
I can fish in the ocean."

"Look, Father!" said Joe.
"I can sail my boat
in the ocean."

"I can swim in the ocean,"
said Edith.

"The house is not
in the woods," said Mother.
"I do not like this house
by the ocean."

Joe put his boat
in the water.

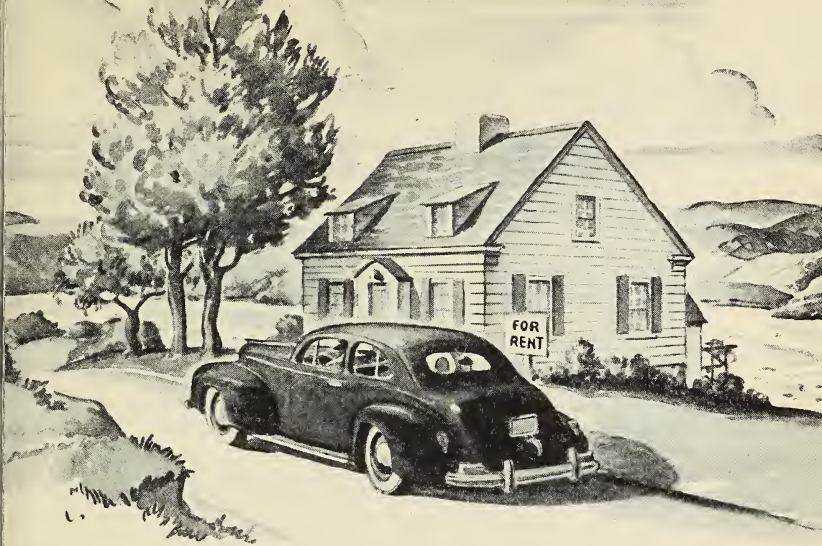
The water went up and down,
up and down.

That made the boat fall over.
"This is not a good place
to sail my boat," said Joe.

Edith went for a swim.
The water went up and down,
up and down.

That made her fall over.
"This is not a good place
to swim," said Edith.

"We will go on," said Father.



The River

Mother and Father
and Edith and Joe went
a long, long way.

By and by they came
to a river.

There was a house
by the river.

"Let us look at this house,"
said Father.

"The house is not
in the woods," said Mother.

"I do not like it."

The water in the river ran
very fast.

"I can not fish here,"
said Father.

"I can not swim here,"
said Edith.

"The water will make me
fall over."

"I can not sail my boat
in the river," said Joe.

"My boat will go too fast.
That will make it fall over."

"This is not a good place
for the summer," said Father.

87



The Brook

They went a long, long way
again.

By and by they came
to a brook.

"There is a house
by the brook," said Mother.

"It is in the woods.

I like this house."



"I can fish in the brook,"
said Father.

"I can see a big fish now."

"But I can not swim here,"
said Edith.

"There is too little water.

There are too many rocks."

"I can not sail my boat here,"
said Joe.

"There are too many rocks."

"We will go on," said Father.

"This is not a good place
for the summer."



The Lake

They had a long automobile ride again.

By and by they came to a lake.

There was a house in the woods by the lake.

"I like the lake," said Joe.

"The water does not go
too fast.

I can sail my boat here."

"I like the lake," said Edith.

"The rocks are not in the way.

I can swim here."

"I like the lake," said Father.

"I can fish here.

This will be a good house
for the summer."

"Yes," said Mother.

"I like this house in the woods."

We Use Water in Many Ways



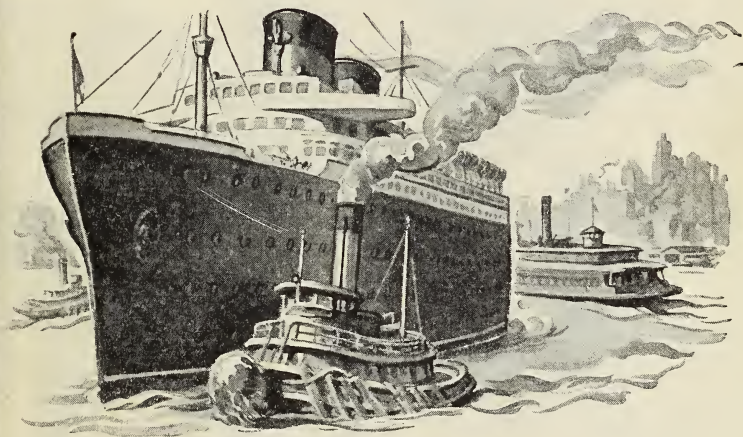
This girl uses water.



This boy uses water.



Children swim in water.



Boats sail on the water.

Mother uses water.

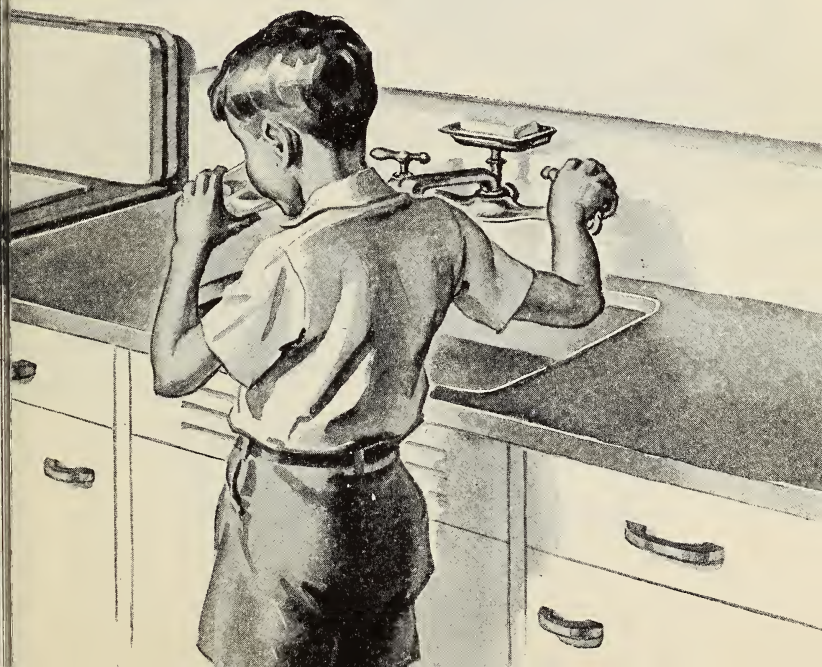


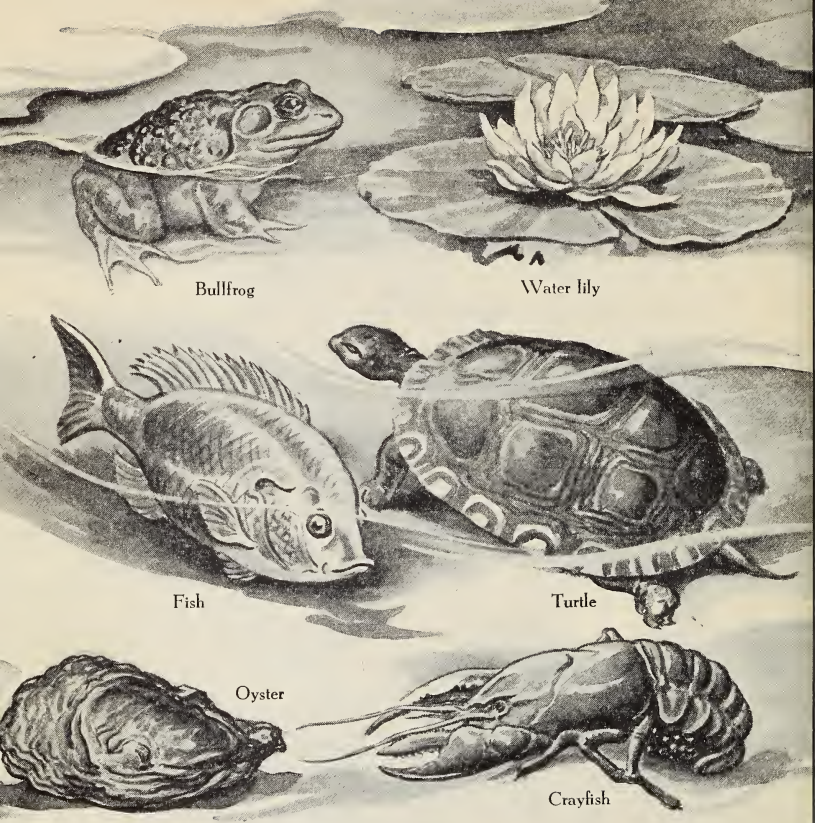
This boy uses water
every day.

Water helps children
in many ways.

In what ways do you use
water every day?

95





Plants and Animals Need Water

Here are some things
that live in water.

Dogs need water every day.





How do other animals get water?
Animals must have water to live.



How do plants get water?

Plants must have water to live.

Rain Is Water

Rain, rain, rain!

All the children had on
their rain coats.

They had umbrellas too.

The rain ran
from their umbrellas.

It ran down their rain coats.

100





Soon Miss White said,
"It is time to come in now.

Just see all the rain
on your umbrellas.

Put them in this pan."

The rain from the umbrellas
ran down into the pan.

By and by Mary said,
"Look at the water in the pan!

The rain from the umbrellas
ran into the pan.

Now we have a pan of water."

"Yes," said Miss White.

"Rain is water."

Snow Is Water

One day they had snow.

"See the snow!

What fun!" said Joe.

"Now we can make snowballs."

Joe made snowballs.

Mary made snowballs.

Peter made snowballs.

By and by Miss White said,

"It is time to come in."

The children had snow
all over them.



Some of the snow went
on the floor.

Then there was water
on the floor.

"See the water on the floor!"
said Mary.

"Yes," said Miss White.

"Snow melts.

Snow is water."

Ice Is Water

It was a very cold day.

Joe had his warm coat.

Peter had his warm coat.

“It is a very cold day,”
said the children.

“Yes,” said Miss White.

“It is a good day to make ice.

Then we can make ice cream.

We will put some water
in a pan.

Then we will put it
out of doors.”

The children put the pan
of water out of doors.

The pan was out of doors
all night.

The next day Miss White said,
"Let us look at the water now."

The water was hard.

It was very, very cold.



"What is it now?"

asked Miss White.

"It is ice," said Mary.

"Yes," said Miss White.

"Now we can make ice cream."

They cracked the ice
for the ice cream.

Some of the ice went
on the floor.

"See the ice melt," said Joe.

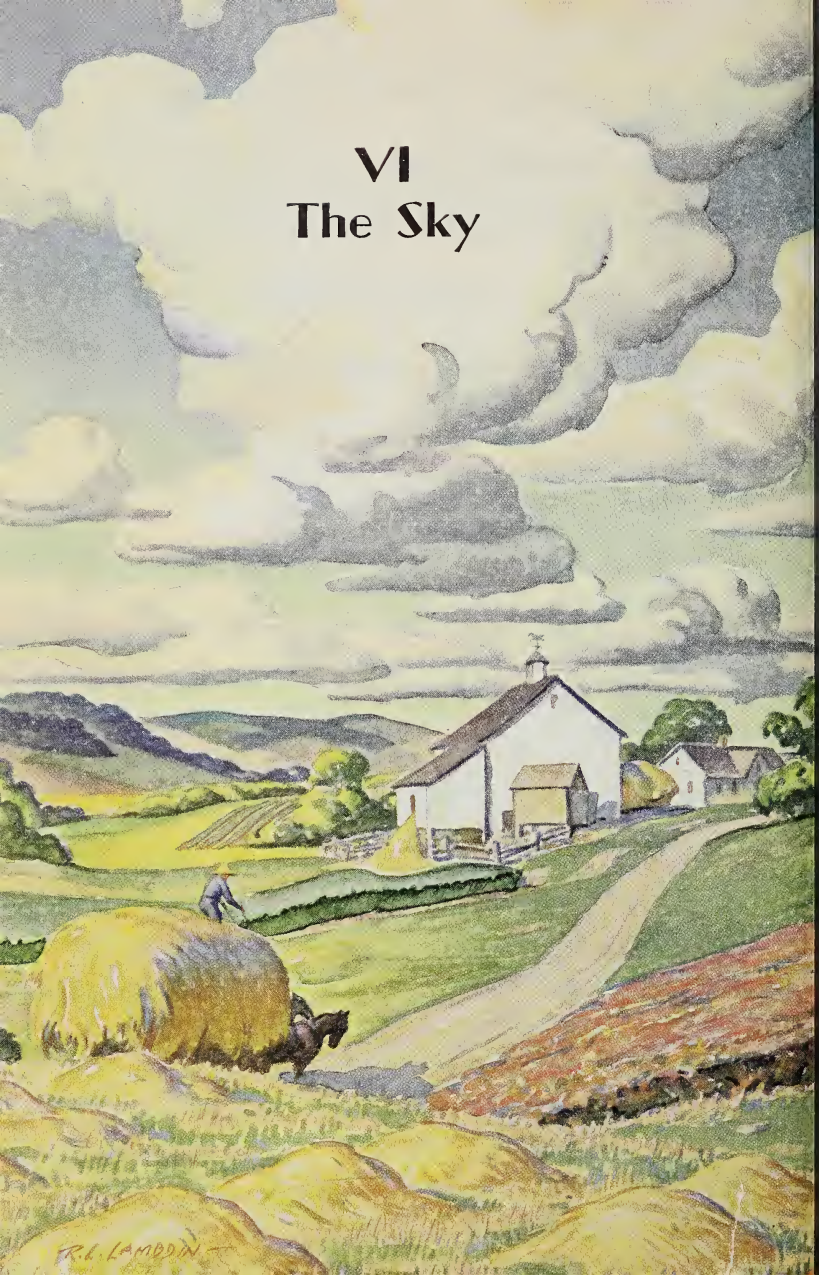
"Now we have water again."

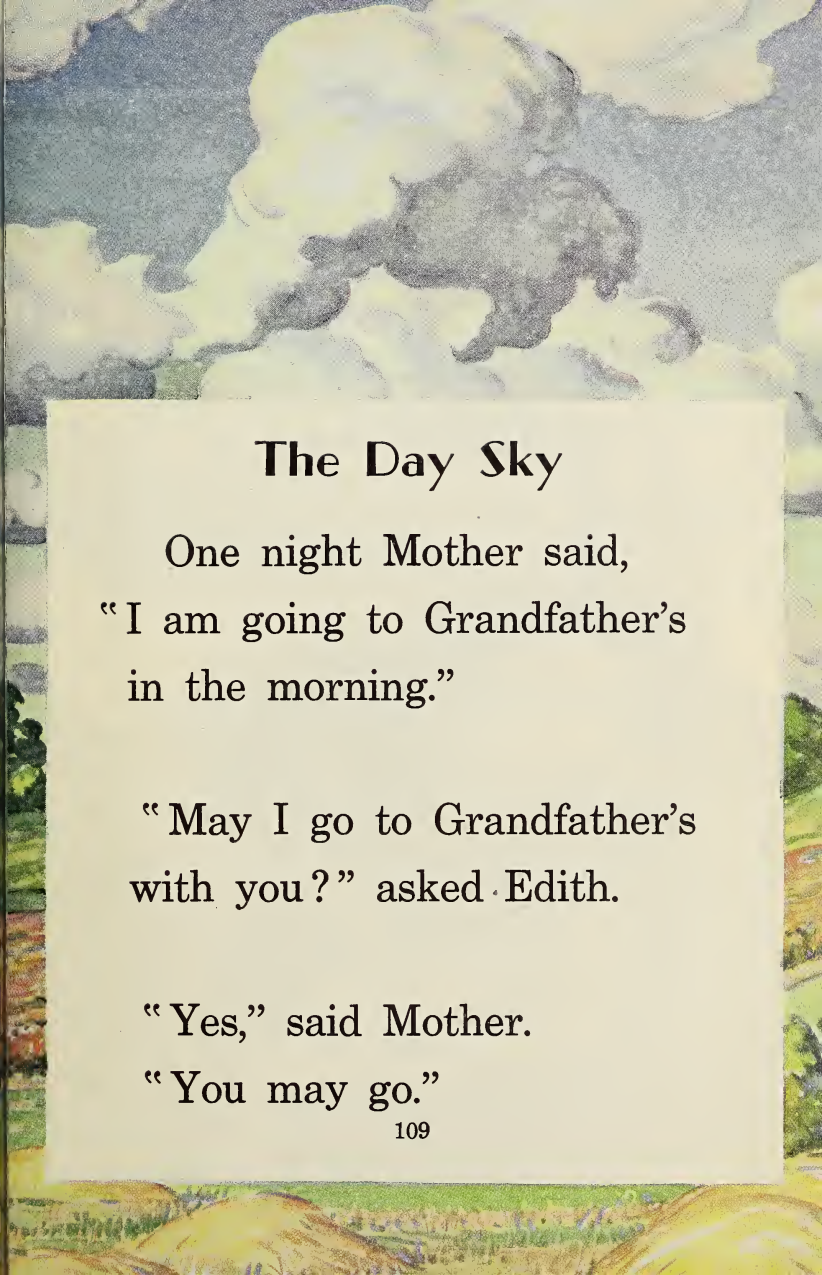
"Yes," said Miss White.

"Ice melts.

Ice is water."

VI The Sky





The Day Sky

One night Mother said,
"I am going to Grandfather's
in the morning."

"May I go to Grandfather's
with you?" asked Edith.

"Yes," said Mother.

"You may go."

"May I go, too?" asked Joe.

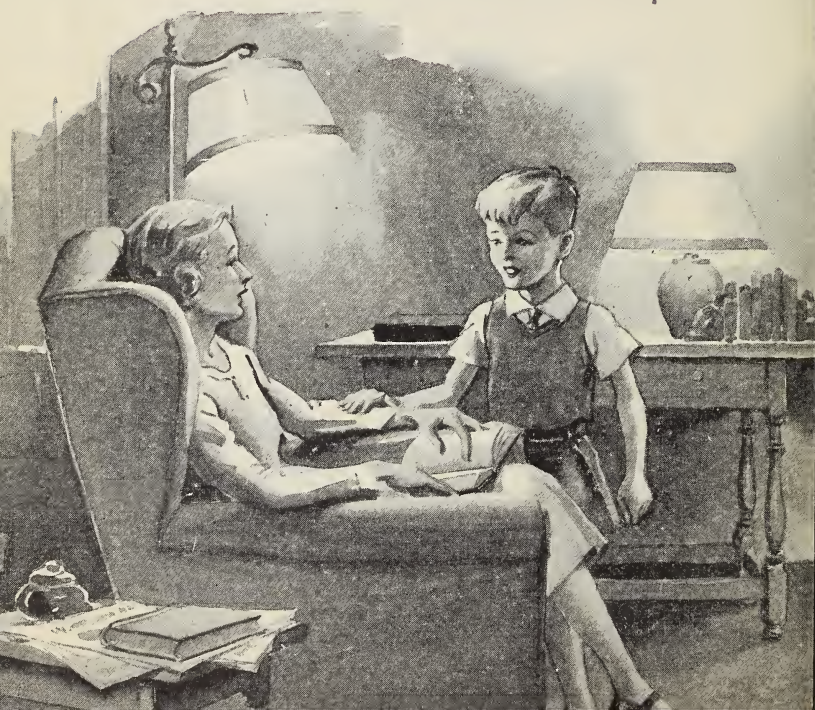
"Yes," said Mother.

"You may go with me, too.

We must get up early.

Grandfather's house is
a long way off."

110





"Will it be light when we get up?" asked Joe.

"Yes," said Mother.

"The sun makes it light early.

When you see the light,
you may get up."

Joe waked up.

It was not light.

It was too early to get up.

He did not call Mother.

He did not get up.

He went to sleep again.

By and by he waked up again.

There was the sun.

The sun made it light.



Joe said, "Wake up, Edith!

Wake up, Mother!

It is light.

We must get up."

"Look at the sky, Mother,"
said Edith.

"Do you think it will be
a good day?"

"Yes," said Mother, "I think
it will be a very good day."

"But there are clouds
in the sky," said Joe.

"Some clouds bring rain."

Mother looked at the sky.

She saw pretty white clouds.

"I do not think it will rain,"
she said.

"White clouds like that
do not bring rain."

They went to Grandfather's
in the automobile.

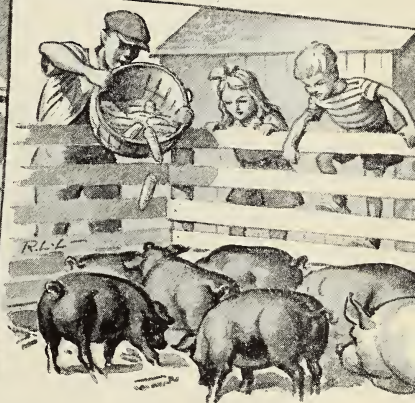
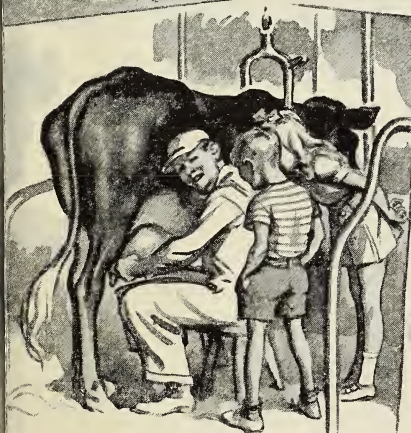
They had a very long ride.

By and by they saw
Grandfather's house.

"Here we are, Grandfather,"
they said.

"We will be here all day.

We are going to have fun."



This is what Joe and Edith
did at Grandfather's.

They saw the sun all day.

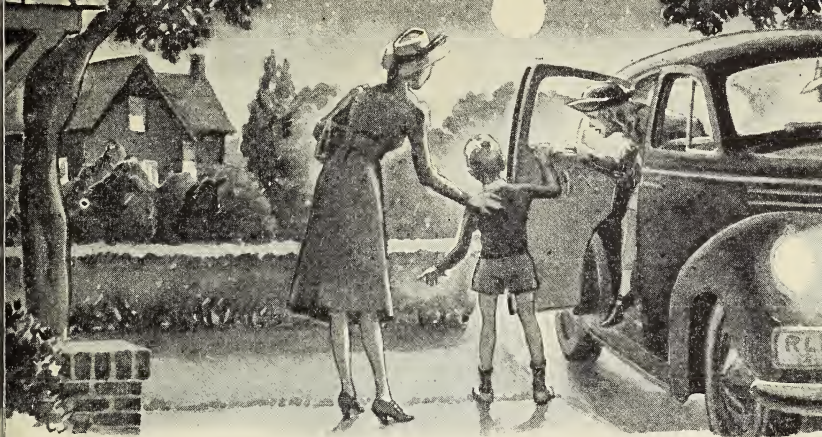
It did not rain.

The Night Sky

By and by Mother said,
"We must go home now.
See how dark it is.
We have a long way to go."

"I see the moon," said Joe.
"I see the stars too.
There are many, many stars.
There is just one moon."

It was a long way home.
Joe went to sleep.
Edith went to sleep, too.
By and by they were home.



"Wake up, Joe!" said Mother.

"Wake up, Edith.

Here we are at home."

Joe waked up.

He saw the moon and stars.

He said, "Look at the moon!

It was at Grandfather's.

Now it is here.

Did it come with us?"

"The moon is a long way off,"
said Mother.

"We can see it
from Grandfather's house.

We can see it from this house
at the same time."

"Can Grandfather see it now?"
asked Joe.

"I think so," said Mother.

"You may call up Grandfather
and find out."

Joe ran to call up Grandfather.

"Grandfather," he said,
"can you see the moon now?"



"Yes," said Grandfather.

"I can see it from my house.

It is a long way off.

You can see it from your house,
and I see it from my house, too.

We see it at the same time.

We can see the moon
from many places."

Clouds

One morning when Joe waked up
it was very dark.

He said, "It is dark.

I can not see the sun.

What makes it so dark?"

Mother said, "Dark clouds
are in the way.

Some of the sun's light
can not get to us."

Soon the sun came out
from the dark clouds.

The sun made it light.



"Here is your umbrella,"
said Mother.

"The clouds are dark.

They are not pretty white ones.

They look like rain clouds."

Joe looked at the sky.

"But I see the sun," he said.

"The dark clouds are not
in the way now.

Shall I need my umbrella?"

Just then down came the rain.

"What fun!" said Joe.

"Sun and rain at the same time.

I shall need my umbrella now."

Joe went down the walk.

He put up his umbrella.

The rain came down very hard.

Dark clouds were in the sky.

But Joe saw the sun too.



He looked at the sky.
What do you think he saw?
He saw a pretty rainbow
in the sky.

All the boys and girls saw
the rainbow.

They said,
"See the rainbow, Miss White.
How pretty it is!"

Miss White looked at the sky.
"It is very pretty," she said.
"This is a good day
for a rainbow.

We must have rain to make
a rainbow.

We must have sun too.

We must have rain and sun
at the same time."

Word Lists

Assumed Words

It is assumed that the children will have read several pre-primers before beginning this book, and the following list of 55 words most common to 21 basic pre-primers has been assumed :

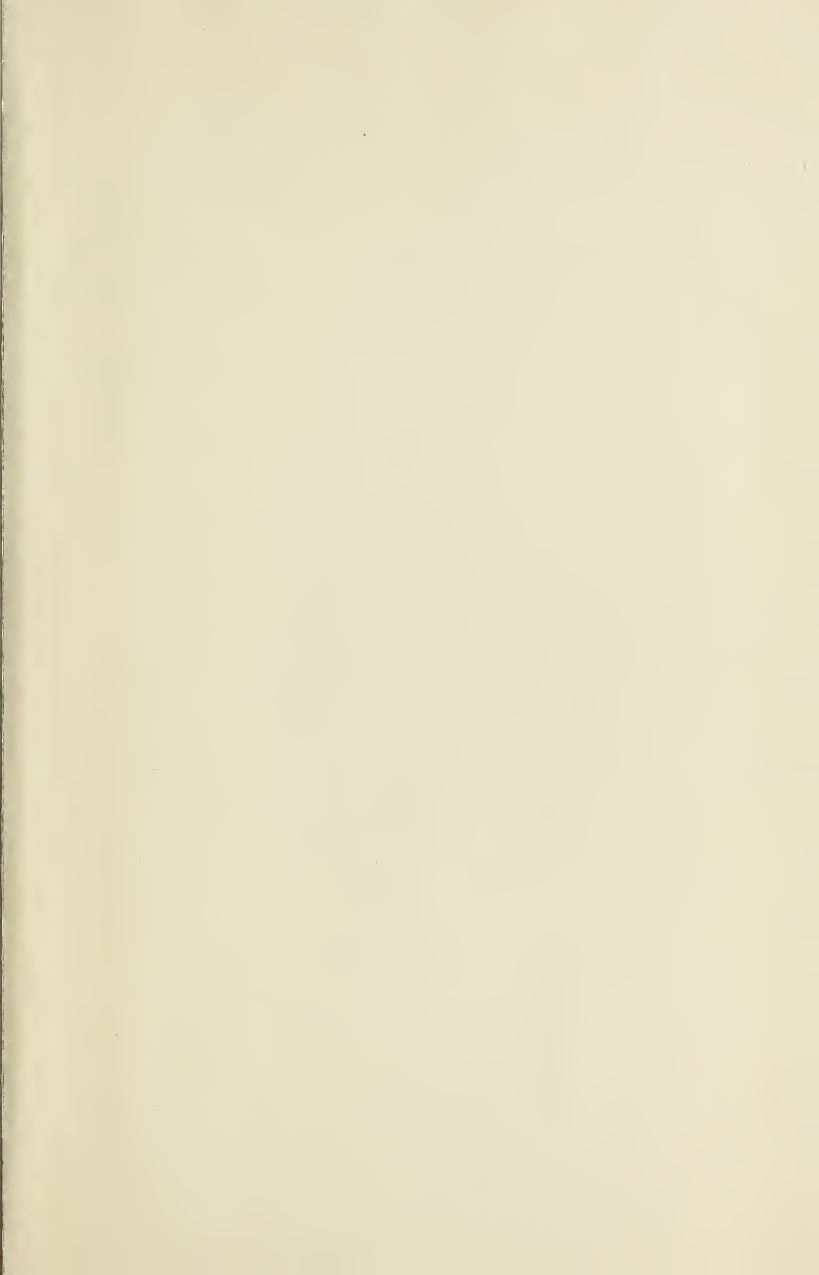
a	find	I	no	too
am	for	in	on	up
and	girl	is	one	want
are	go	it	ran	was
at	good	like	said	we
boy	had	look	saw	went
came	has	made	she	what
can	have	make	the	will
come	he	me	they	yes
did	here	mother	this	you
down	house	my	to	your

New Words by Pages

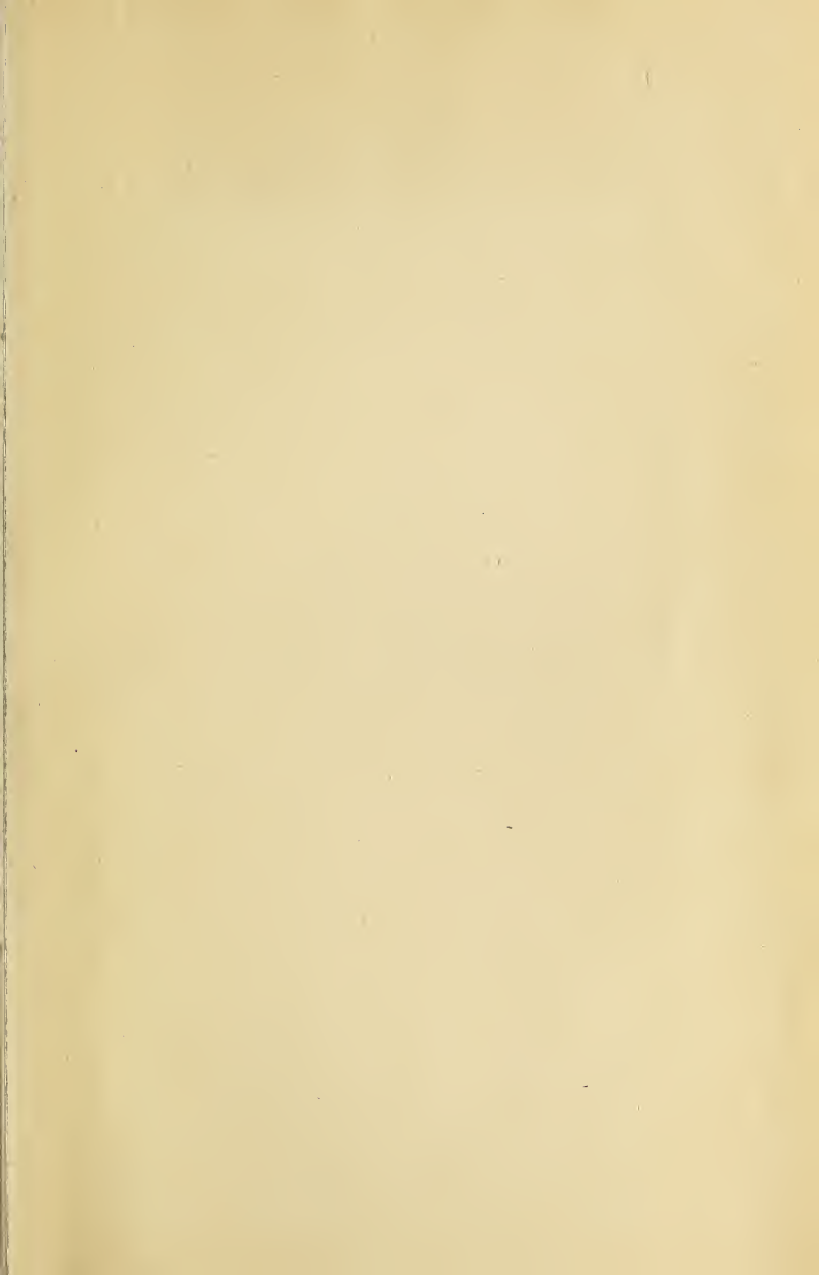
The vocabulary of "We Want to Know" introduces 176 new words. Of these no more than three appear for the first time on any one page. Every new word is used a minimum of three times within the book. All variants are counted as new words except when made by the addition of -s and -'s.

6. fall	do	21. father	26. soon
things	put	walk	28. box
7. Joe	12. bang	warm	keep
making	her	22. cold	thank
Mary	then	hands	29. help
8. blocks	13. laughed	walked	many
dog	14. into	23. his	30. floor
of	asked	rubbed	hard
9. doll	not	were	pushed
may	15. bottom	24. now	31. four
10. big	that	rubbing	wheels
little	16. again	25. moves	32. easy
some	18. over	other	so
11. but	20. rub	wood	33. Peter

stop	snow	92. use
wagon	tray	96. live
34. pull	64. ate	need
ride	bread	plants
stick	Miss White	98. get
36. out	66. let	must
37. gave	us	100. rain
38. brake	67. eat	their
road	same	umbrellas
40. automobiles	suet	102. just
42. coverings	68. Jean	pan
43. coats	nuts	time
new	69. cracked	103. fun
wool	corn	snowballs
44. from	70. seeds	104. melts
home	sunflower	105. doors
sheep	71. bring	ice
45. see	shall	ice cream
46. day	73. there	106. night
next	76. morning	108. sky
47. all	them	109. Grandfather's
animals	77. children	with
48. fur	every	110. early
50. ducks	79. summer	off
feathers	80. by	111. light
51. birds	Edith	sun
hens	swim	when
53. fish	81. boat	112. call
scales	sail	sleep
water	82. long	waked
54. getting	ocean	113. clouds
hurt	84. place	think
56. going	85. river	wake
shells	way	114. pretty
turtle	86. fast	white
59. does	very	looked
how	88. brook	116. dark
skin	89. rocks	moon
62. food	90. lake	stars
63. feeding	91. be	123. rainbow







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